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PRE-PERMIT CONSTRUCTION APPROVAL
AND PERMIT TO CONSTRUCT APPLICATION for
CARGILL ENVIRONMENTAL FINANCE,
ROCK CREEK DAIRY
TWIN FALLS, IDAHO

October 9, 2008

Kleinfelder Project Number: 96248

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Prepared for:

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PRE-PERMIT CONSTRUCTION APPROVAL AND PERMIT TO CONSTRUCT APPLICATION for CARGILL ENVIRONMENTAL FINANCE, ROCK CREEK DAIRY TWIN FALLS, IDAHO

Kleinfelder Job No: 96248

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October 9, 2008

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1 PROCESS DESCRIPTION

Cargill Environmental Finance proposes to construct an anaerobic digester renewable energy system on property leased from the Rock Creek Dairy. The site is located near Twin Falls, Idaho and presented in Figures 1 and 2. The facility is within Twin Falls County, Idaho which is designated attainment or unclassifiable for criteria pollutants.

1.1. Process Description

Manure from the dairy will be pumped into an anaerobic digester where the natural digestion process will produce methane-rich bio-gas. The hydrogen sulfide content of the bio-gas will be reduced using a bio-scrubber conditioning system. The reduced hydrogen sulfide is converted to sulfur dioxide when it is combusted in either the flare or the Genset engines. The conditioned bio-gas will fuel two Genset reciprocating internal combustion engines. The Genset generators will produce electricity that will be sold to the local utility. Heat produced from the Genset electrical generators will be used to maintain the digester at an optimum operating temperature and as process heat for the dairy. The waste liquid in post-digester manure is separated and will be utilized for irrigation and fertilizer. The solids will be used for cattle bedding and/or soil amendment. A process flow diagram is presented in Figure 4.

The proposed project includes the installation of the manure digester, bio-gas conditioning system and Genset generators. The Rock Creek Dairy will operate the dairy and manage the solids and wastewater generated by the process. This permit application is being submitted to obtain approval for construction and operation of the proposed project. Air emissions from the system are released through the two stacks associated with the Genset generators and an emergency flare that would be used in the event the generators are taken offline.

The proposed anaerobic digester renewable energy system will be operated by Cargill Environmental Finance on property leased from the Rock Creek Dairy. The generators and the flare emissions will result in criteria pollutant emissions of carbon monoxide, particulate matter, nitrogen oxides, sulfur dioxide and volatile organic compounds. The generators will also emit toxic air pollutants (TAPs).

1.2. Facility Classifications

SIC: 4911

The facility is classified by the Standard Industrial Classification # 4911 for Electric Services.

NAICS: 237130

The facility is classified by the North American Industry Classification System # 237130 for Alternative Energy Structure Construction.



2 PRE PERMIT CONSTRUCTION ELIGIBILITY

Pre-permit construction approval is available for new minor sources that do not use emissions netting to stay below major source levels. The proposed project meets all of the pre-permit construction eligibility requirements. The emission calculations and data source reference information are provided in this application.

Cargill Environmental Finance is requesting from Idaho Department of Environmental Quality (IDEQ) the ability to commence construction of the source before receiving the required permit to construct. The owner understands that proceeding with construction prior to receiving the required permit to construct is at their own risk. This request is presented in the cover letter for this application.

An informational meeting has been scheduled at the Hampton Inn in Twin Falls, Idaho on October 13, 2008. The meeting announcement was published in the Times News. A copy of the notices published in the Times News is presented in Appendix E.



3 APPLICABLE REQUIREMENTS

3.1. Major or Minor Facility Designation

The proposed project is considered a minor facility based on it's potential to emit. Please see detailed emission calculations in Appendix D.

Designated: ____Yes ________No Potential To Emit: 99.3 tons/yr

Pollutant which defines Potential to Emit: Carbon Monoxide

3.2. Federal Requirements

No federal regulations other than NSPS SubPart JJJJ (40 CFR 60) are applicable to the proposed project.

The engines will be manufactured after July 1, 2007 and have a capacity greater than 500 horsepower (hp). Therefore, in accordance with 40 CFR 60.2430, 40 CFR 60, Subpart JJJJ is applicable to this project.

The following New Source Performance Standards (NSPS) emission standards are applicable to the proposed generators

Table 3-1
Summary of 40 CFR 60, Subpart JJJJ Table 1.

			Emission standards ^a					
Engine Type and		Manufacturer	g/HP-hr			ppmvd at 15% O ₂		
Fuel	engine power	Date	NO _x	CO	VOC ^b	NO _x	CO	VOC _p
Digester Gas (except lean burn 500≤HP<1,350)	HP≥500	7/1/2007	3.0	5.0	1.0	220	610	80

a Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15% O₂.

The requirements of 40 CFR 60.4233(f) are applicable to this project. A maintenance plan and record of conducted maintenance will be prepared and available at the site. An initial performance test will be conducted in accordance with the NSPS requirements and subsequent performance testing conducted every 8,760 hours of operation or 3-years which ever comes first. Performance testing will be completed in accordance with the procedures in 40 CFR 60, Subpart JJJJ, Table 2.

40 CFR 60.4243(g) does not apply to this application. The engines do not require three-way catalysts/non-selective catalytic reduction to meet the emission standards

^b For the purposes of this subpart, when calculating emissions of volatile organic compounds (VOC), emission of formaldehyde should not be included.



because they are lean-burning, not rich-burning engines. EPA's interpretation of the applicability of this requirement for these types of engines is included in Appendix F.

Notifications will be made in accordance with the NSPS general provisions and Section 60.4245 of 40 CFR 60, Subpart JJJJ.

3.3. Rules for the Control of Air Pollution in Idaho (IDAPA 58.01.01)

IDAPA 58.01.01.123 Certification of Documents

Based on information and belief formed after reasonable inquiry, all statements and information contained in the application are true, accurate, and complete.

IDAPA 58.01.01.128 Confidential Information

The information submitted in the application is subject to public disclosure unless submitted under a secret trade claim.

IDAPA 58.01.01.130 Startup Shutdown, Scheduled Maintenance, Safety Measures, upset and Breakdown

If an excess emission event occurs during startup shutdown, scheduled maintenance, safety measures, upset or breakdown, Cargill Environmental Finance will comply with IDAPA 58.01.01.130 through IDAPA 58.01.01.136.

IDAPA 58.01.01.156 Total Compliance

Cargill Environmental Finance understands that when more than one section of rules applies then all such rules must be met to be considered in compliance.

IDAPA 58.01.01.201 Permit to Construct Required

Cargill Environmental Finance will obtain a permit to construct from the Department which satisfies the requirements of Sections 200 through 208. The proposed project does not meet the permit to construct exemption criteria contained in Sections 220 through 223 of the Rules.

<u>IDAPA 58.01.01.203 Permit Requirements for New and Modified Stationary Sources</u> This permit application demonstrates that the project will comply with all applicable emissions standards, ambient air quality standards, and toxic increments. See the modeling report attached in Appendix B.

IDAPA 58.01.01.210 Demonstration of Preconstruction Compliance with Toxic Standards

This permit application demonstrates preconstruction compliance with the Toxic Standards. See the ambient impacts assessment in Section 5.

IDAPA 58.01.01.223 Exemption Criteria, Recordkeeping, and Reporting for Toxic Air Pollutant Emissions

The proposed project does not meet the exemption criteria specified in sections 01 through 04 of Section 223.



<u>IDAPA 58.01.01.300 Procedures and Requirements of Tier I operating Permits</u>
The facility is not considered a major source and not subject to these requirements.

<u>IDAPA 58.01.01.577 Ambient Air Quality Standards for Specific Air Pollutants</u>
The proposed project meets the ambient air quality standards specified in Section 577.
See the ambient impacts assessment in Section 5.

<u>IDAPA 58.01.01.578 Designation of Attainment, Unclassifiable, and Nonattainment Areas</u>

The proposed project is located in Twin Falls County which is currently classified as unclassifiable or attainment for criteria pollutants. Cargill Environmental Finance acknowledges that DEQ annually reviews areas for classification.

IDAPA 58.01.01.585 Toxic Air Pollutants Non-Carcinogenic Increments

The proposed project will result in emissions of non-carcinogenic TAPs including acrolein, isomers of xylene, selenium, styrene, toluene, and trichloroethylene. These emissions will not exceed their respective screening emission levels. See the ambient impacts assessment in Section 5.

IDAPA 58.01.01.586 Toxic Air Pollutants Carcinogenic Increments

The proposed project will result in potential emissions of carcinogenic TAPs including acetaldehyde, benzene, dichloromethane, formaldehyde, dichloroethylene, nickel and vinyl chloride. The emissions of acetaldehyde and trichloroethylene do not exceed their respective screening emission levels. However, emissions for benzene, dichloromethane, formaldehyde, nickel, and vinyl chloride have potential to exceed each of their respective screening emission levels. Modeling results indicate all emissions for carcinogenic TAPs are below their respective Acceptable Ambient Concentration for Carcinogens (AACCs). See the ambient impacts assessment in Section 5.

IDAPA 58.01.01.590 New Source Performance Standards

Cargill Environmental Finance acknowledges that the proposed project must comply with the NSPS set forth in 40 CFR Part 60.

<u>IDAPA 58.01.01.591 National Emission Standards for Hazardous Air Pollutants</u> The proposed project complies with 40 CFR Part 61 and 40 CFR Part 63.

IDAPA 58.01.01.625 Visible Emissions

Cargill Environmental Finance will not discharge any air pollutant which is greater than 20% opacity from the stacks for more than 3 minutes in a 60 minute period. Cargill will comply with specified test methods and procedures.

<u>IDAPA 58.01.01.650 & 651 Rules for the Control of Fugitive Emissions & General Rules</u> Cargill Environmental Finance will take all reasonable precautions to prevent particulate matter from becoming airborne.



<u>IDAPA 58.01.01.675 & 676 Fuel Burning Equipment – Particulate Matter & Standards</u> for New Sources

The project will not discharge particulate above the applicable grain loading standard.

IDAPA 58.01.01.700--702 Particulate Matter - Process Weight Limitations

The emitting source is not considered process equipment and therefore the regulations do not apply to this source.

IDAPA 58.01.01.760 Rules for the Control of Ammonia from Dairy Farms

The proposed project is located on property leased from the Rock Creek Dairy. The impact analysis for the emissions from the proposed generators demonstrates compliance with applicable standards at the boundary of the leased property and at the point of maximum impact. The dairy is owned and operated separately from the generators. Therefore, these rules do not apply to this source.

IDAPA 58.01.01.775 Rules for the Control of Odors

All reasonable precautions will be taken to control odors.



4 POTENTIAL EMISSION ESTIMATES

4.1. Equipment and Source Description

Two Genset electrical generators are proposed to be installed adjacent to each other. The two generators are described in Table 4-1. There are no emission controls proposed for the generators.

Table 4-1
Equipment Description

	Emission Controls
Anaerobic Digester, Electric Generators, & Flare	
Anaerobic Digester Biogas Production: 885,000 c.f. per day	Flare
Bio-gas Conditioning System Manufacturer: Paques Model: Thiopaq Type: Bioscrubber	The biogas conditioning system reduces SO ₂ emissions from the Project but is not considered an emission control device
Generator Engine No. 1 Manufacturer: GE Model: Jenbacher J416 Rated Power: 1,573 horsepower Ignition Type: Spark	·
Generator Engine No. 2 Manufacturer: GE Model: Jenbacher J420 Rated Power: 1,966 horsepower Ignition Type: Spark	None
Flare Manufacturer: Perennial Energy Flare Heat Release Rate: 1,458,406 cal/sec	

4.2. Source Parameters

Each of the generators will have a 12-inch diameter stack extending 26 feet above the ground surface. The vendor estimated, based on the design parameters and modeling



the operation of the units, that the typical stack temperatures and velocity will be 743° K and 25.34 meters/second (m/s), respectively.

The flare will be manufactured by Perennial Energy and will be capable of combusting all of the gas produced from the digester. The flare is 20 feet above ground surface and will operate when the engines are offline due to an emergency situation or for maintenance.

4.3. Emission Factors

The emission factors used to estimate emissions from the generators came from multiple sources including AP-42, EPA's WebFire database and vendor information. The specific vendor information was determined most reliable, since it represents the specific operating conditions and equipment proposed for the project.

AP-42 Section 3.1 has published emission factor data for publically-owned treatment works (POTW) digester gas-fired stationary gas turbines. In addition, AP-42 Section 3.2 has published emission factors for natural gas fired reciprocating engines. EPA's WebFire database provides limited data from internal combustion engines fueled from POTW digester gas. The WebFire data was collected in the early 1990s and is rated U (unrated)¹ by EPA. It does not provide supporting details about the source and operating conditions.

With the exception of particulate and sulfur dioxide (SO₂), vendor information was used to estimate emissions for all of the primary pollutants. Vendor information for this type of emission source is limited. Cargill Environmental Finance discussed with IDEQ during its July 30, 2008 meeting that the vendor data is an estimate that may need to be refined after the performance source test data for carbon monoxide (CO), nitrous oxide (NOx) and volatile organic compounds (VOCs) is obtained. For example, vendor information for VOC emissions is based on tests conducted using EPA Method 18 data. The NSPS performance testing will be conducted using EPA Method 25A.

Particulate matter (PM) for PM_{10} and $PM_{2.5}$ emission factors were selected from AP-42 Section 3.2, Table 3.2-2 – Uncontrolled Emission Factors for four-stroke Lean–Burn Engines. The table presents D-Rated PM_{10} (filterable) and PM Condensable emission factors for natural gas lean burn reciprocating engines. The PM_{10} emissions represent the sum of the PM_{10} (filterable) and the PM Condensable fractions, since the condensable fraction is likely less than 10 microns.

Sulfate emission factors were calculated from the anticipated average concentration of hydrogen sulfide (H_2S) in the raw and conditioned bio-gas. The H_2S will be oxidized to SO_2 in either the engines or the flare. The H_2S concentration in the raw bio-gas is

Emission factor is developed from source tests which have not been thoroughly evaluated, research papers, modeling data, or other sources that may lack supporting documentation. The data are not necessarily "poor," but there is not enough information to rate the factors according to the rating protocol. "U" ratings are commonly found in L&E documents and FIRE rather than in AP 42.



anticipated to average approximately 2,400 parts per million (ppm). This concentration is consistent to similar systems. The bio-gas conditioning system is expected to reduce bio-gas concentrations to 350 ppm. Since the design of the operation allows the conditioning system to be bypassed, the flare SO_2 emission factor was calculated based on the 2,400 ppm H_2S concentration. Only conditioned bio-gas will be combusted in the genset engines to avoid equipment damage, therefore the emission factor for the engines is based on the 350 ppm H_2S concentration.

TAP emission data from generators using digester gas fuel is likely more representative than data from generators using natural gas fuel. AP-42 Section 3.2, Table 3.1-7 Emission Factors for Hazardous Air Pollutants from Digester Gas-Fired Stationary Gas Turbines presents D-Rated uncontrolled emission factors acetaldehyde, formaldehyde, nickel and selenium. Other hazardous air pollutants (HAPs) are presented in the data, but reported as non-detectable. The remaining emission factors were extracted from the EPA WebFire database. This data was identified as the least reliable of the available data. It is unrated by EPA and provides no supporting information to evaluate its relevance to the proposed project.

AP-42 Section 13.5 has published emission factor data for industrial flares. The emission factors presented in this section of AP-42 were developed from petroleum refinery flare emissions and are not representative of a manure digester system. AP-42 Section 2.4 has published emission factors for municipal waste gas flares. However, these were also considered not be representative of a manure digester system.

A search of EPA's RACT/BACT/LAER Clearinghouse database (RBLC) revealed a permit that was issued in 2007 for an anaerobic digester at an Archer Daniels Midland facility in Iowa. The database presents criteria pollutant emission factors for the digester flares that represent Best Available Control Technology (BACT) (RBLC ID #IA-0088). The emission factors are similar to those proposed for the generators.

The revised emission factors for the flare are those identified in EPA's RBLC. The emission factors for HAPs were assumed the same as the emission factors used to estimate the generator emissions.

4.4. Emission Estimate

The hourly emission rates were calculated by multiplying the expected hourly British Thermal Unit (BTU) input by the respective emission factor. The BTU input was determined based on the bio-gas flow rate multiplied by the expected BTU value of 565 Btu/cf for the bio-gas. The maximum daily bio-gas production is estimated to be 885,000 cf/day. The hourly rate was estimated by dividing the maximum daily flow by 24 hours.

There is potential for the facility to bypass the bio-gas conditioning system if necessary for maintenance or in the event of malfunction. If the system is bypassed, bio-gas with higher concentration H_2S would be flared, resulting in higher emissions of SO_2 than when the conditioning system is operating as designed. The emission estimate



presented in Table 4-2 reflects hourly emissions of SO₂ from the flare when it is combusting the un-conditioned bio-gas.

The generators will emit acrolein, isomers of xylene, styrene, toluene, selenium and trichloroethylene which are non-carcinogenic TAPs listed in IDAPA 58.01.01.585. The potential emission estimates for these compounds do not exceed their respective TAP screening emission levels (EL). The generators will also emit acetaldehyde, benzene, dichloromethane, formaldehyde, trichloroethylene, nickel and vinyl chloride which are carcinogenic TAPs listed in IDAPA 58.01.01.586. The potential emission estimates for acetaldehyde and trichloroethylene do not exceed their respective TAP EL. However, modeling was conducted for benzene, dichloromethane, formaldehyde, nickel, and vinyl chloride because potential emission estimates exceed their respective TAP EL. Modeling demonstrates compliance with the Acceptable Ambient Concentration (AAC).

Table 4-2
Hourly Emission Estimate for Genset Generators and Flare

Pollutant	Genset (lbs/hr)	Flare (lbs/hr)
PM ₁₀	0.2	0.2
SO _{2 (Note 1)}	2.2	14.9
NO _x	8.3	2.1
CO	22.7	4.2
VOC	1.9	7.5
Acetaldehyde	1.1E-03	1.1E-03
Acrolein	5.4E-04	5.4E-04
Benzene	1.4E-02	1.4E-02
Dichloromethane	2.1E-03	2.1E-03
Formaldehyde	4.0E-03	4.0E-03
Isomers of Xylene	2.9E-03	2.9E-03
Nickel	4.2E-05	4.2E-05
Selenium	2.3E-04	2.3E-04
Styrene	1.1E-03	1.1E-03
Toluene	5.5E-03	5.5E-03
Trichloroethylene	4.2E-04	4.2E-04
Vinyl Chloride	1.2E-03	1.2E-03

Note 1: hourly SO₂ emission calculations from the flare were calculated based on the anticipated average raw bio-gas concentration

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4.5. Potential to Emit

The potential to emit (PTE) if both of the generators are operating at maximum capacity for the proposed project is shown in Table 4-3. Please see Appendix D for detailed emission calculations.

The PTE was calculated based on the genset engines operating 8,760 hours/year. Table 4-3 presents the potential emissions if the maximum expected annual biogas flow were combusted through either of the generators or if the maximum expected annual biogas flow were combusted through the flare. The flare is located after the H_2S scrubbing system, but its potential emissions reflect the concentration of H_2S in the raw digester gas as a worst case scenario. No limitation on the operation of the flare will be necessary to maintain the PTE of any criteria pollutant below major source thresholds.

Table 4-3
Potential Annual Emissions for Genset Generators and Flare

Pollutant	Genset	Flare
	PTE (Note 1)	PTE (Note 2)
-	(tons/yr)	(tons/yr)
PM ₁₀	0.9	0.7
SO _{2 (Note 3)}	9.6	65.5
NO _x	36.4	9.1
CO	99.4	18.3
VOC	8.3	32.9
Acetaldehyde	4.8E-03	4.8E-03
Acrolein	2.4E-03	2.4E-03
Benzene	6.3E-02	6.3E-02
Dichloromethane	9.2E-03	9.2E-03
Formaldehyde	1.7E-02	1.7E-02
Isomers of Xylene	1.2E-02	1.2E-02
Nickel	1.8E-04	1.8E-04
Selenium	1.0E-03	1.0E-03
Styrene	4.8E-03	4.8E-03
Toluene	2.4E-02	2.4E-02
Trichloroethylene	1.8E-03	1.8E-03
Vinyl Chloride	5.1E-03	5.1E-03

Note 1: PTE is calculated based on 8,760 hours/year of Genset engine operation.

Note 2: PTE is calculated based on 8,760 hours/year of flare operation.

Note 3: SO₂ PTE from the flare is calculated using raw un-conditioned biogas.



4.6. Emission Limits

The concentration of the H_2S entering the generators will be maintained below 350 ppm. As discussed during the pre-permit meeting with DEQ, Cargill Environmental Finance prefers mass-based emission limits instead of concentration-based limits in its permit. Cargill is committed to:

- Monitor H₂S concentration between the bio-gas conditioning system and Gensets; and
- Monitor bio-gas flowrate through the system.

The emission factors for the primary pollutants are estimates based on the best available information. Cargill will conduct performance source testing according to New Source Performance Standards. The testing will provide site-specific information that will increase the understanding of emissions from the source. Cargill requests flexibility in its permit to allow revision of emissions estimates, as appropriate, when site-specific information is collected.

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5 AMBIENT IMPACT ASSESSMENTS

Air quality modeling was conducted consistent with the IDEQ Dispersion Modeling Guidelines (Guidelines), revised December 31, 2002, and the Ambient Air Quality Modeling Protocol, approved under a general protocol approval on April 19, 2008.

Slight deviations were made after the approval of the Air Quality Modeling Protocol. Because the proposed project on Rock Creek Dairy is considered to be a source separate from the dairy, the leased property boundary is considered to be the nearest public receptor. We selected the maximum modeled concentration generated by the model to demonstrate compliance with National Ambient Air Quality Standards (NAAQS). The Genset generators and the flare were modeled independently assessing the impact at the maximum impact location. The Screen3 outputs files are attached in Appendix D.

Table 5-1 below shows the modeled results of the ambient air impacts from the Genset generators and the flare. It is important to note that the genset engines will not operate at the same time as the flare and should not be considered a combined source when comparing to the standards. The modeled impacts from criteria pollutants, including IDEQ approved background concentrations for rural areas, are compared to the NAAQS. The modeled impacts from TAPs are compared to the State of Idaho AACs.

Based on the analysis performed, the proposed stationary source will not cause or significantly contribute to a violation of any ambient air quality standard and demonstrates pre-construction compliance with IDAPA 58.01.01, Section 161 with regards to TAP emissions.

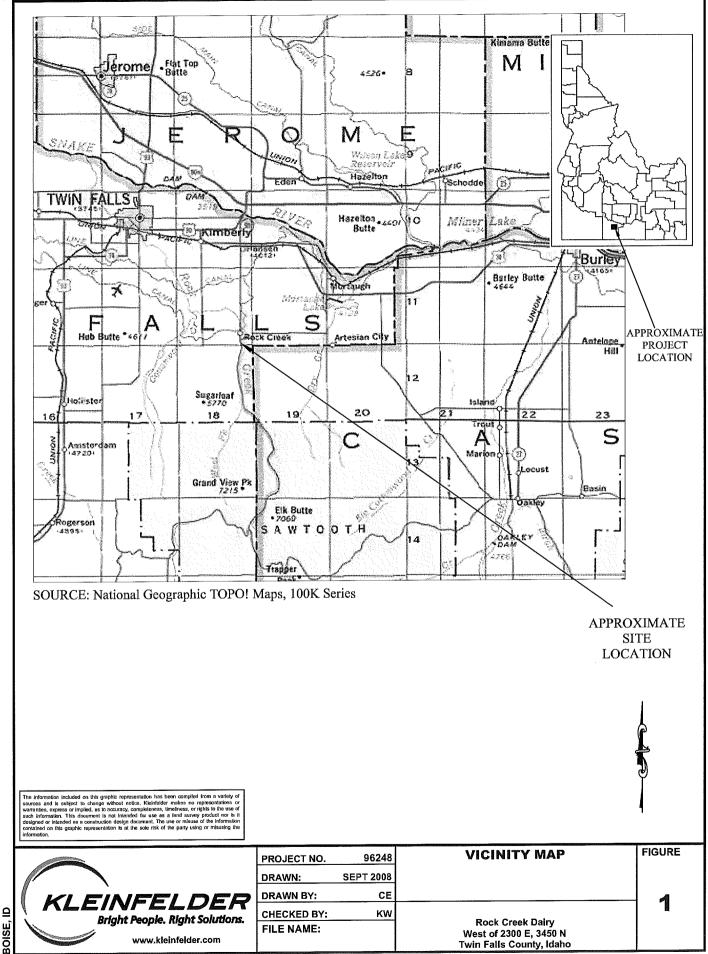


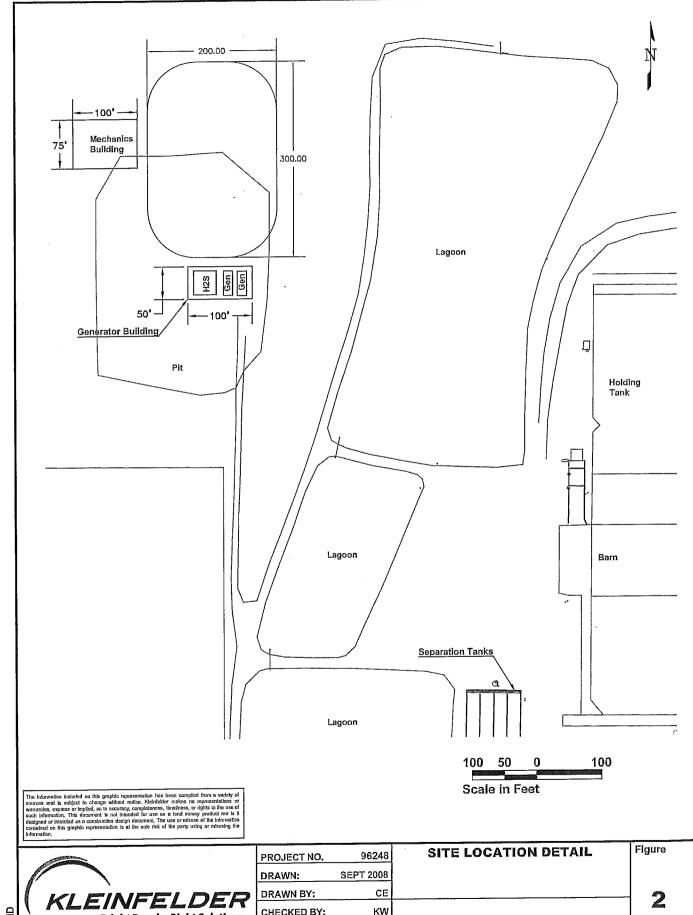
Table 5-1
Modeling Results

Pollutant	Averaging period	Modeled Ambient (µg/m	NAAQS/AAC (µg/m3)	
	periou	Gensets Engines	Flare	/h3e)
PM ₁₀	24-hr	79	74	150
	Annual	27	26	50
SO ₂	3-hr	164	227	1,300
	24-hr	84	112 ·	365
	Annual	20	25	80
NO ₂	Annual	50	19	100
CO	1-hr	5,107	3,660	40,000
	8-hr	3,355	2,342	10,000
Pb	Qtrly	n/a	n/a	1.5
Acetaldehyde	Annual	Below TAP EL	Below TAP EL	n/a
Acrolein	24-hr	Below TAP EL	Below TAP EL	n/a
Benzene	Annual	0.119	0.03	0.12
Dichloromethane	Annual	0.02	0.004	0.24
Formaldehyde	Annual	0.03	0.007	0.077
Isomers of Xylene	24-hr	Below TAP EL	Below TAP EL	n/a
Nickel	Annual	0.0003	0.00007	0.0042
Selenium	24-hr	Below TAP EL	Below TAP EL	n/a
Styrene	24-hr	Below TAP EL	Below TAP EL	n/a
Toluene	24-hr	Below TAP EL	Below TAP EL	n/a
Trichloroethylene	24-hr	Below TAP EL	Below TAP EL	n/a
·	Annual	Below TAP EL	Below TAP EL	n/a
Vinyl Chloride	Annual	0.01	0.002	0.14



FIGURES

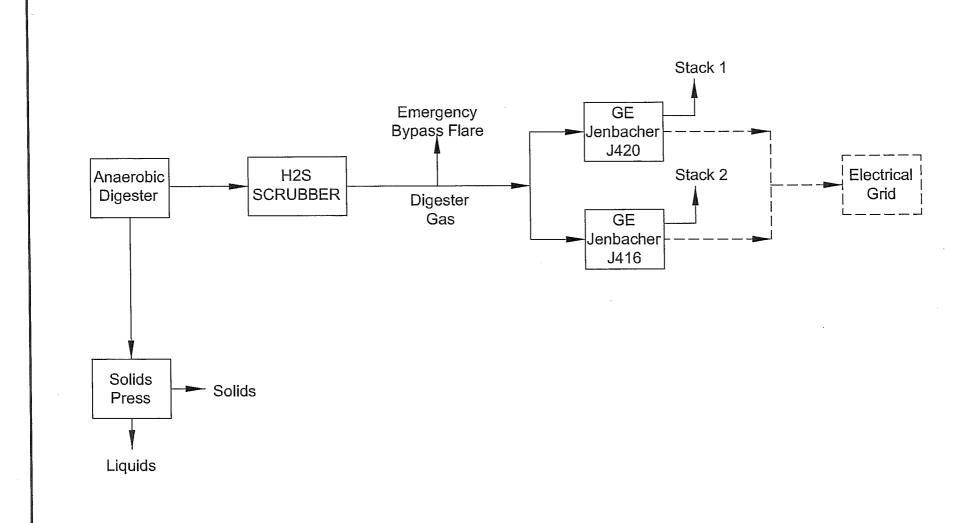




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PROJECT NO.	96248
DRAWN:	SEPT 2008
DRAWN BY:	CE
CHECKED BY:	кw
FILE NAME:	

Rock Creek Dairy	
West of 2300 E, 3450 N	
Twin Falls County, Idaho	



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			١

PROCESS FLOW CHART

Figure

Rock Creek Dairy
West of 2300 E, 3450 N
Twin Falls County, Idaho



APPENDIX A Permit to Construct Application Forms



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline -- 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 04/03/07

Please see instructions on page 2 before filling out the form.

		AND FACILITY ID ANIMOLE	-	
COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER 1. Company Name Cargill Environmental Finance				
1. Company Name				
2. Facility	Name	Rock Creek 3. Facility ID No. 1		
4. Brief Pro	oject Descrip	through gensets.	electricity	
	181111	PERMIT APPLICATION TYPE		
		New Source at Existing Facility Unpermitted Existing So	urce	
	-	Source: Permit No.: Date Issued: orcement Action: Case No.:		
6. Mino	or PTC	Major PTC FORMS INCLUDED		
			DEQ	
Included	N/A	Forms	Verify	
\boxtimes		Form GI – Facility Information		
\boxtimes		Form EU0 – Emissions Units General		
\boxtimes		Form EU1 - Industrial Engine Information Please Specify number of forms attached:		
	\boxtimes	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:		
	\boxtimes	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:		
	\boxtimes	Form EU4 - Cooling Tower Information Please Specify number of forms attached:	<u> </u>	
	\boxtimes	Form EU5 – Boiler Information Please Specify number of forms attached:		
	\boxtimes	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:		
	\boxtimes	Form CBP - Concrete Batch Plant Please Specify number of forms attached:		
	\boxtimes	Form BCE - Baghouses Control Equipment		
		Form SCE - Scrubbers Control Equipment		
\boxtimes		Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)		
\boxtimes		PP – Plot Plan		
\boxtimes		Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)		
		Form FRA – Federal Regulation Applicability		

DEQ USE ONLY Date Received
Project Number
Payment / Fees Included? Yes No No
Check Number



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 03/26/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

	All Illioillation is required	J. II IIIOTHIAUOTI IS IIIISSING, the application will not be processed.			
		IDENTIFICATION			
1.	Company Name	Cargill Environmental Finance			
2.	Facility Name (if different than #1)	Rock Creek			
3.	Facility I.D. No.	1			
4.	Brief Project Description:	Dairy Anaerobic Digester which captures biogas to produce electricity through			
		FACILITY INFORMATION			
5.	Owned/operated by: (√ if applicable)	Federal government County government State government City government			
6.	Primary Facility Permit Contact Person/Title	Ryan Coleman - Project Engineer			
7.	Telephone Number and Email Address	208-345-2324 or/cell 208-340-6421 ryan_coleman@cargill.com			
8.	Alternate Facility Contact Person/Title	Gary Rimmey - Senior Operations and Maintenance Manager			
9.	Telephone Number and Email Address	984-952-3887 gary_rimmey@cargill.com			
10.	Address to which permit should be sent	Mail stop 139 12700 Whitewater Dr. (AND) 1410 Camelback LN. Suite 229			
11.	City/State/Zip	Minnetonka, Minnesota 55343 Boise, ID 83702			
12.	Equipment Location Address (if different than #10)	Rock Creek West of 2300 East 3450 North			
13.	City/State/Zip	Twin Falls, ID			
14.	Is the Equipment Portable?	Yes No			
15.	SIC Code(s) and NAISC Code	Primary SIC: 4911 Secondary SIC (if any): NAICS: 237130			
16.	Brief Business Description and Principal Product	Anaerobically digest cow manure and capture methane to power engine and produce electricity.			
17.	Identify any adjacent or contiguous facility that this company owns and/or operates				
		PERMIT APPLICATION TYPE			
18.	Specify Reason for Application	⊠ New Facility			
		CERTIFICATION			
I	N ACCORDANCE WITH IDAPA 58.01.01.123 (F AFTER REASONABLE INQUIRY,	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.			
19.	Responsible Official's Name/Title	Ryan Coleman - Project Engineer			
20.	RESPONSIBLE OFFICIAL SIGNATU	JRE 1/4 1/1 800 Date: 10-1-08			
21.	21. 🖂 Check here to indicate you would like to review a draft permit prior to final issuance.				



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 03/27/07

Please see instructions on page	2 before	filling out the	e form.						
			DENTIFICAT	ION					
Company Name:		Facility N	lame:		Facility	ID No:			
Cargill Environmental Finance		Rock Creek 1							
Brief Project Description:		Dairy Anaerobic Digester that collects biogas & generates electricity							
	SIONS	JNIT (PROC	ESS) IDENT	FICATION &	DESCRIPTION				
Emissions Unit (EU) Name:	FLARE								
2. EU ID Number:	EP-3								
3. EU Type:	⊠ New ☐ Mod	Source ification to a Pe	Unpermitted Exermitted Source	isting Source - Previous Permi	t #: Date	Issued:			
4. Manufacturer:	PEREN	NIAL ENERGY							
5. Model:	ENCLO	SED GROUND	FLARE						
6. Maximum Capacity:	885,000	CF/DAY							
7. Date of Construction:	10/1/20	08							
8. Date of Modification (if any)	NA			· · · · · · · · · · · · · · · · · · ·					
9. Is this a Controlled Emission Unit?	⊠ No			The state of the second st	If No, go to line 18				
		EMISSION	S CONTROL	EQUIPMEN					
10. Control Equipment Name and ID:		NA			1				
11. Date of Installation:	NA	12. Date of Mod	lification (if any):	NA					
13. Manufacturer and Model Number:		NA							
14. ID(s) of Emission Unit Controlled:		NA							
15. Is operating schedule different than units(s) involved?		☐ Yes ☐] No						
16. Does the manufacturer guarantee the efficiency of the control equipment?	e control	☐ Yes ☐	No (If Yes, att	ach and label ma	anufacturer guarant	ee)			
emoleticy of the control equipment.				Pollutant Cont	rolled				
	PM	PM10	SO₂	NOx	voc	CO			
Control Efficiency	NA	NA	NA	NA	NA	NA			
17. If manufacturer's data is not available	e, attach a	separate sheet	of paper to provi	de the control ec	uipment design sp	ecifications and performance data			
to support the above mentioned control									
					hours/year, or	Ouner)			
18. Actual Operation			MAINTENANCE						
19. Maximum Operation	EMISSIO	William I and a supplied to the second of the	S BASED ON 8,7		.K				
The Control of the Control			QUESTED L						
20. Are you requesting any permit lim	20. Are you requesting any permit limits?								
☐ Operation Hour Limit(s):									
☐ Production Limit(s):			· · · · · · · · · · · · · · · · · · ·						
☐ Material Usage Limit(s):									
☐ Limits Based on Stack Testing	Pie	ase attach all re	elevant stack test	ting summary rep	OORS				
Other:									
21. Rationale for Requesting the Limit	(s): NA								

Emissions Units - Industrial Engine Information Form EU1



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 03/27/07

Please see instructions on page 2 before filling out the form.

			IDENTIFICATION							
Company Name:		Facility	Name:		Facility ID	No:				
Cargill Environmental Fi	nance	1	Creek		1					
Brief Project Description:		Dairy	Anaerobic Digester th	nat collec	ts biogas	& makes electricity				
	EXEMPTION									
Please refer to IDAPA 58.01.01.222.01.c and d for a list of internal combustion engines that are exempt from the Permit to Construct requirements.										
E .	NGINE (EMIS	SION UN	IT) DESCRIPTION AND S	SPECIFIC <i>A</i>	ATIONS					
1. Type of Unit: New Ur										
2. Use of Engine: Normal	Operation [Emerg	ency 🗌 Back-up 🛛 C	Other: Rene	ewable Ener	ду				
3. Engine ID Number:	4.	Rated Po	wer:							
EP-1		⊠ 1573	Brake Horsepower(bhp)	⊠ 113	38 Kilowatts	(kW)				
5. Construction Date:	6.	Manufact	urer:	7. Model:	Model:					
10/01/08		GE Je			cher J 416					
8. Date of Modification (if appl	licable): 9.	Serial Nu	mber (if available):	10. Contr	ol Device (if	fany):				
NA	i	NA		NA						
	FUE	L DESCR	RIPTION AND SPECIFICA	ATIONS						
11.	☐ Diesel F	uel (#)	☐ Gasoline Fuel	☐ Natu	ıral Gas	Other Fuels				
Fuel Type	(gal/h	r)	(gal/hr)	(cf/	hr)	(unit:cf/hr)				
12. Full Load Consumption Rate						21,129				
13. Actual Consumption Rate						19,063				
14. Sulfur Content wt%			N/A	N/	/A					
OPERATING LIMITS & SCHEDULE										
15. Imposed Operating Limits	(hours/year,	or gallons	fuel/year, etc.):							
NA										
16. Operating Schedule (hour	s/day, months	s/year, etc	s.):							
24 hours a day, 365 d										



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

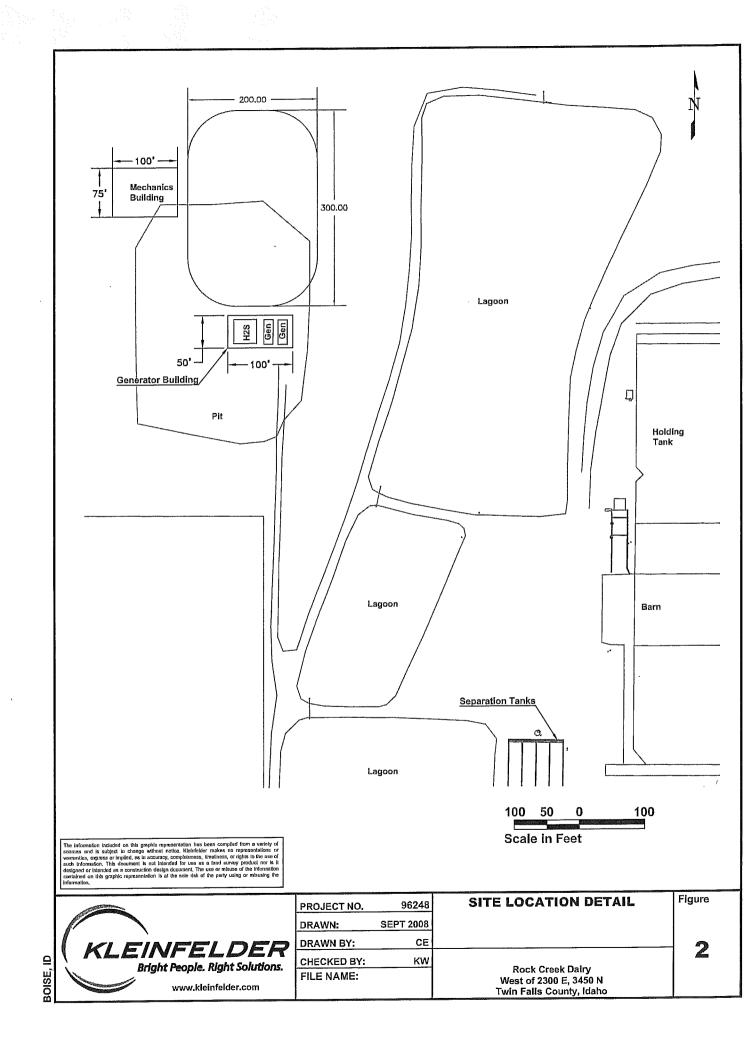
Revision 3 03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION										
Company Name:		Facility	Name:		Facility ID	No:				
Cargill Environmental Fi	inance	Rock	Creek		1					
Brief Project Description:		Dairy	Anaerobic Digester t	hat collec	ts biogas	& makes electricity				
	EXEMPTION									
Please refer to IDAPA 58.01.01.222.01.c and d for a list of internal combustion engines that are exempt from the Permit to Construct requirements.										
ENGINE (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS										
2. Use of Engine: Normal	I Operation ☐] Emerg	ency 🗌 Back-up 🔯 🤇	Other: Rene	ewable Ene	rgy				
3. Engine ID Number:	4. F	Rated Po	wer:							
EP-2		Brake Horsepower(bhp)	⊠ 142	26 Kilowatts	s(kW)					
5. Construction Date:	6. N	. Manufacturer: 7			7. Model:					
10/01/08		GE			cher J 420					
8. Date of Modification (if app	olicable): 9. S	10. Contr	ol Device (i	f any):						
NA	NA NA NA									
	FUEL	DESCR	IPTION AND SPECIFICA	And interestinated to the comment						
11.	☐ Diesel Fι	uel (#)	☐ Gasoline Fuel	_	ıral Gas	Other Fuels				
Fuel Type	(gal/hr))	(gal/hr)	(cf/	hr)	(unit:cf/hr)				
12. Full Load Consumption Rate						26,416				
13. Actual Consumption Rate						19,063				
14. Sulfur Content wt%			N/A	N/	′A					
		DPERAT	ING LIMITS & SCHEDU	LĒ -						
15. Imposed Operating Limits	15. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):									
NA NA										
16. Operating Schedule (hour	16. Operating Schedule (hours/day, months/year, etc.):									
24 hours a day, 365 d	24 hours a day, 365 days a year									

Facility-Wide Emission Inventory - Criteria Pollutants - Point Sources Form EI-CP1

	DEQ AIR QUAL 1410 N. Hilton, For assistance, Air Permit Hott	Boise, ID 8370 call the	6						PI	RMIT TO	CONSTRU	JCT APPL	Revision 3 4/5/2007
				ase see instru	ctions on page	2 before filling	out the form.						
	Cargill Environ	gill Environmental Finance											
Facility Name:							Rock Creek						
Facility ID No.: Brief Project Description:	Dainy Angasabia	Digaster which	annturos bios	on to produce	aloghigiby thro	uah gancate	1						
Brief Project Description:	Daily Aliaetobic	MARY OF F	Valle AVAIVI		M PATES	ogn gensets.	IA POLITI	ANTS POI	MESONISH	ESCHOOL COM	68460 W 86550	orang supulsi di	COMMENT TELEPROTES
1.	2.	11010				<u> </u>	3				a transfer to	AND A STREET STREET	20/45/19/94958 18/8/90
I•	 	PN	10	S	D ₂	NC		. CO)	VO	c i	Lea	ad
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	Т/уг	lb/hr	T/yr	lb/hr	T/yr
	55 - 756 33 6 (8)	X 0.000	Kirka (EM)		Point So	urce(s)		V- III	dushing a ci	With Province	Krist Hawking	SHE PYRE	
GE Jenbacher 412	EP-1	0.11	0.46	1.09	4.78	4.16	18.22	11.34	49.68	0.95	4.14	N/A	N/A
GE Jenbacher 412	EP-2	0.11	0.46	1.09	4.78	4.16	18.22	11.34	49.68	0.95	4.14	N/A	N/A
Perennial Energy Flare	EP-3	0.16	0.68	14.94	65,46	2.08	9.13	4.17	18.25	7.50	32,85	N/A	N/A
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Total	1			47.7-		10.15	45.5-		417.5-		11 1-		
Total	ļ	0.37	1.59	17.12	75.01	10.40	45.56	26.85	117.60	9.39	41.13		L



Modeling Information - Impact Analysis Form MI1



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.							
Company Name:	Cargill Environmental Finance						
Facility Name:	Rock Creek						
Facility ID No.:	1						
Brief Project Description:	Dairy anaerobic digester which captures biogas to produce electricity through gensets.						

		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results (µg/m3)	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (μg/m3)	Percent of NAAQS
PM ₁₀	24-hour	5.53	5	5.53	73.00	78.53	150	52%
i ivi10	Annual	1.11	1	1.11	26.00	27.11	50	54%
	3-hr	130.34	25	130.34	34.00	164.34	1300	13%
SO₂	24-hr	57.93	5	57.93	26.00	83.93	365	23%
	Annual	11.59	1	11.59	8.00	19.59	80	24%
NO ₂	Annual	33.16	1	33.16	17.00	50.16	100	50%
со	1-hr	1,507.23	2000	1,507.23	3,600.00	5,107.23	10000	51%
	8-hr	1,055.06	500	1,055.06	2,300.00	3,355.06	40000	8%

Modeling Information - Point Source Stack Parameters Form MI2

	DEQ AIR QUAL						PERMI	T TO CON	ISTRUCT	APPLICATION Revision 3	
	For assistance,	Boise, ID 83706 call the ine - 1-877-5PEF	PINIT	3/27/2007							
	Air Peniit noti		e instructions	on nage 2 l	hefore filling	out the for	n				
Company Name:	Cargill Environn		e manacacions	on page 21	JOIO10 11111115	9 041 110 1011					
Facility Name:	3				Ro	ock Creek					
Eacility ID No :						1					
Brief Project Description:	Dairy anaerobic	digester which c	aptures biogas to	produce elect	ricity through	gensets.	San Assault (1944 1970 1970 1970 1970	Twen mit, intak Talah mark	v konze e na viji odnanago s	AZ OFFICE PART OF TRANSPORTED AND THE	
			POINT SOUR	RCE STACK	PARAMET	rers					
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.	
	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)	
Emissions units	Vagasaras iri salgadikkinati	Kaning Kadina di pangal	anegyeks a are en ver	ALD BUTCHER	Same May	a suppose a city	TV Jayrens 113	Eggsalinaan periodop	ek jerê îndina Hêlawî		
Point Source(s)							740.50	0.040.00	05.24	vertical	
1 GE Jenbacher 416 and 1 GE Jenb	EP-1& EP-2	1,478,522.00	303,661.80	1,250.00	7.93	0.30	743.00	3,916.00	25.34		
1 Perennial Energy Flare	EP-3	1,478,522.00	303,661.80	1,250.00	6.10	n/a	n/a	n/a	n/a	vertical	
		<u> </u>				 					
				<u> </u>						-	
	1										
						<u> </u>					
	1										
					1						
		†									
											
	-										
			-			-		-	 		
	1						-				
							1				
(insert more rows as needed)											

Modeling Information - Fugitive Source Parameters Form MI3

	1410 N. Hilton, For assistance,	LITY PROGRAM Boise, ID 83706 call the ine - 1-877-5PEI		:	2		PERMI	T TO CONS	TRUCT APPI	Revision 3 4/5/2007
	Air Permit nou		see instruction	is on page 2 i	before filling (out the form.				
Company Name:	Cargill Environr		300 11/00 00101	io on page 2 .						
Facility Name:					Roc	k Creek				
Facility ID No.:						1				
Brief Project Description:	Dairy anaerobio	c digester which o	captures biogas t	o produce electr	ICITY INFOUGH GE	nseis.	waren a gegaa beg	rsqr.ww		
Bonneren er en				SOURCE P			V.5.		1	40
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North (°)	Initial Vertical Dimension (m)	Horizontal Dimension (m)
Area Source(s)	to the process and policing	Production of the party and	month to stay of the stay of the	t of Anthonyon Behoeft of Solve 190	V - 1 W	Ser TE 9	i i mesandelija šprva 1991. i 199	Control of the Control of Poly	A THE STATE OF THE	
name of the emissions unit1	10.00									
name of the emissions unit2							,,,,,,,			
name of the emissions unit3										
name of the emissions unit4										
name of the emissions unit5										
name of the emissions unit6										
name of the emissions unit7										
name of the emissions unit8										
name of the emissions unit9							,			
name of the emissions unit10	1									
Volume Source(s)		Saggar CV State (19)	de Biology (1949), 1950	Terry garage at 17 har	1 1 1 1					
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
(insert more rows as needed)										

Modeling Information - Buildings and Structures $\pmb{Form}\;\pmb{M14}$

	DEQ AIR QU 1410 N. Hilto For assistand Air Permit H	n, Boise, ID e, call the otline - 1-87	83706 7-5PERMIT	PERMIT TO CONSTRUCT APPLICATE Rev 4/					
	- 4	Please s	ee instruction	s on page 2 t	efore filling out the	e form.			
Company Name:	Cargill Enviro	nmental Fina	ance						
Facility Name:					Rock Creek				
Facility ID No.:					1				
Brief Project Description:	Dairy anaero	bic digester v	which captures b	iogas to produc	e electricity through g	ensets.			
and the state of the		Βl	JILDING AND	STRUCTUE	RE INFORMATION				
1.	2.	3.	4.	5.	6.	7.			
Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments			
Mechanical Building	75.00	100.00	1250.00	6.70	1	Mechanical building nearest the stacks			
Building 2 ID									
Building 3 ID									
(insert more rows as needed)									
						,			



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

AIR PERMIT APPLICATION

Revision 5 09/08/08

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

	DENTIFICATION	J				
			3. Facility ID No.:			
1. Company Name:	2. Facility Name	<u>t.</u>				
Cargill Environmental Finance	Rock Creek		1			
4. <u>Brief Project Description:</u> Dairy Anaerobic Dig	ester which capt	ures biogas to produce electricity t	hrough gensets.			
APPLIC	ABILITY DETE	RMINATION				
5. Review <u>current federal regulations</u> and identify federal regulations that apply or appear to apply to the factorist applicable regulations below in items 6-8.	deral cility. You will	☐ The facility is not subject to an regulations. If you checked the now complete.	is box, the form is			
		X Federal regulation(s) applies. item 6.	Continue with			
6. List applicable subpart(s) of the New Source Performance Standards (NSPS) (40 CFR part 60).	ormance	List of applicable subpart(s):40 C JJJJ	FR 60 subpart			
		☐ Not applicable.				
7. List applicable subpart(s) of the National Emission	n Standards for	List of applicable subpart(s):				
Hazardous Air Pollutants for Source Categories (National Control Technology (in 40 CFR part 63.	X Not applicable.					
8. List applicable subpart(s) of the National Emission	n Standards for	List of applicable subpart(s):				
Hazardous Air Pollutants (NESHAP) found in 40 C	CFR part 61.	X Not applicable.				
9. For each subpart identified above, conduct a com	plete regulatory	X Regulatory analysis complete.				
analysis.		☐ Not applicable. Explain why:				
10. Will this facility be subject to compliance assurate (CAM) (40 CFR 64) as a result of this permitting	nce monitoring action?	☐ NO, the facility is not subject of this permitting action. Plea	to CAM at the time se explain why:			
		☐ YES If yes, please fill out I	DEQ <u>Form CAM</u> .			
		X Not applicable.				
11. List applicable part(s) and subpart(s) of other fed regulations that are not included in items 7 through 9	deral	List of all applicable part(s) and s	subpart(s):			
a complete regulatory analysis.	X Not applicable.					
IF YOU ARE UNSURE HOW TO ANSWER ANY	OF THESE QUE 1-877-5PERMI	STIONS, CALL THE AIR PERMIT H T	OTLINE AT			